

AD-A166 232 UNDERWATER FACILITIES INSPECTIONS AND ASSESSMENTS AT
NAVAL STATION ADNAK ALASKA(U) NAVAL FACILITIES
ENGINEERING COMMAND WASHINGTON DC CHESAPEAKE DIV
UNCLASSIFIED SEP 88 CHES/NAVFAC-FPO-1-81(5) F/G 13/2

UNDERWATER FACILITIES INSPECTIONS AND ASSESSMENTS AT
NAVAL STATION ADAK ALASKA(U) NAVAL FACILITIES
ENGINEERING COMMAND WASHINGTON DC CHESAPEAKE DIV
SEP 80 CHES/NAVFAC-FPO-1-81(5) F/G 13/2

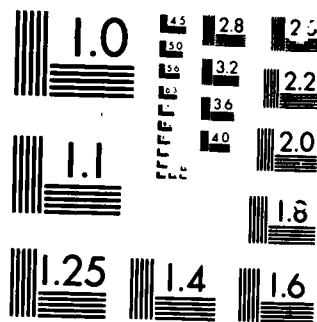
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F/G 13/2

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PHOTOGRAPH THIS SHEET

UNDERWATER FACILITIES
INSPECTIONS & ASSESSMENTS

1

AD-A166 232

DTIC ACCESSION NUMBER

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INVENTORY

NAVAL STATION
ADAK, ALASKA
FPO-1-81(5)

DOCUMENT IDENTIFICATION

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UNDERWATER FACILITIES INSPECTIONS & ASSESSMENTS

AD-A166 232

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NAVAL STATION
ADAK, ALASKA

FPO-1-81(5)

SEPT 1980

OCEAN ENGINEERING AND CONSTRUCTION PROJECT OFFICE
CHESAPEAKE DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON, D.C. 20374

**UNDERWATER FACILITIES
INSPECTIONS
AND
ASSESSMENTS
AT**

FILE COPY

**NAVAL STATION
ADAK, ALASKA**

FPO-1-81(5)

SEPT 1980

PERFORMED FOR:

**OCEAN ENGINEERING AND CONSTRUCTION PROJECT OFFICE
CHESAPEAKE DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON, D.C. 20374**

**INSPECTION PERFORMED
AND REPORT PREPARED BY:**

**UNDERWATER CONSTRUCTION TEAM TWO
PORT HUENEME, CA**

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INTRODUCTION

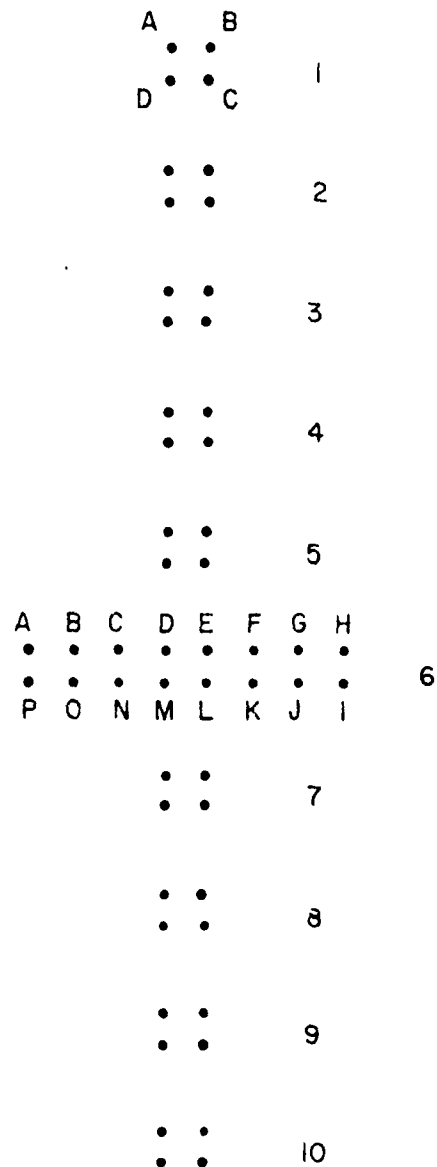
The underwater inspections reported herein were performed by Underwater Construction Team Two (UCT-2) at the request of and with funding from the Underwater Inspection Program managed by Naval Facilities Engineering Command, Chesapeake Division, Code FPO-1. This program is part of the Specialized Inspection Program initiated in FY 80 and directed by the Naval Facilities Engineering Command, (NAVFACENGCOM), Code 100 office. This centrally funded program establishes within NAVFACENGCOM the capability for coordinating all Navy efforts to inspect and assess the underwater condition of the Navy's major waterfront facilities.

The UCT-2 inspections were planned by FPO-1 as part of the Underwater Inspection Program. However, FPO-1 manpower limitations prevented the desired monitoring and integration of these inspections into the program, thus the inspection data was not recorded and reported in the manner established for the program. The underwater inspection report included herein is as received from UCT-2 with the following items added by FPO-1:

Sketch of Pier P102
Pier T-1403 pile plan
Fuel Pier pile plan

RUNWAY APPROACH LIGHT PILINGS

NAVAL STATION ADAK, ALASKA



INSPECTION SUMMARY FOR ADAK RUNWAY APPROACH LIGHT PILINGS

1. Commencing 16 July 1980 UCT TWO Det Adak inspected the runway centerline approach lights at Naval Station Adak, Alaska. The inspection data is referenced to Y & D drawing number 1,090,364, sheet 2 of 11. The runway approach light support pilings are 16 inch diameter creosote treated timber piles with tar impregnated burlap cap covers. There were a total of 10 bents with four vertical and four batter piles per bent.

2. A total of 56 piles were inspected from mud line to the high water mark. Since no as-built drawings were available a numbering system was established in which bents were numbered 1 - 10 going shoreward and batter piles lettered consecutively (see attached sketch). From the mud line to the high water mark, all piles appear in excellent condition. There exists a moderate growth of barnacles, and sea anemones and heavy kelp growth in the splash zone. Of the 56 piles, five had moderate damage ranging from evidence of marine borers to structural damage from apparent dredge cutter head contact or ship impact. Inspection sheets of all piles are attached as tab (A) of this enclosure. A sketch of pile placement and the numbering system used on the data sheets is included as tab (B).

Enclosure (1)



DEPARTMENT OF THE NAVY
UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

UCT2:DMF:vm
5000
9 December 1980

From: Officer in Charge, Underwater Construction Team TWO
To: Commanding Officer, Naval Station Adak, Alaska

Subj: Report of Pier Inspections NAVSTA Adak

Ref: (a) UCT TWO OpOrd 5-80 of 8 Apr 80

Encl: (1) Inspection Data and Summary for Runway Approach Light Pilings
(2) Supply Pier (P-102) Inspection Report with Photos
(3) Supply Pier (T-1409) Inspection Report with Photos
(4) Fuel Pier

1. As tasked by reference (a), UCT TWO Det Adak conducted an inspection of the Runway Approach Light Pilings, Supply Pier T-1403, Supply Pier P-102, and the Fuel Pier at Naval Station Adak, Alaska.

2. Enclosures (1) through (4) are forwarded as the preliminary report on the subject project. A final report will be prepared and forwarded by CHESNAVFACENGCOM.

T. H. CHRISTENSEN

Copy to:
PWC Adak, AK
COMCBPAC (w/o encls)
COM31STNCR (w/o encls)
CHESDIV (FPO-1) (2 copies)

INSPECTION SUMMARY FOR SUPPLY PIER #P-102

1. UCT TWO Det Adak, Alaska inspected Supply Pier P-102 commencing 21 July 1980. The inspection data is referenced to NAVFAC drawing number 6077532.
2. The Supply Pier is constructed of 16 inch diameter concrete reinforced piles. Each bent has either four piles (bents 1-9) or eight piles (remaining 29 bents). A total of 168 piles were inspected from the mud line to the high water mark. Of the 168 piles inspected, four had minor to moderate damage including some spalling and slight rust bleeding. In general the pilings of this recently constructed pier seem to be in excellent condition, and are only lightly covered with marine growth.
3. Inspection sheets of all piles are attached as tab (A) of this enclosure. Photos of this inspection are attached as tab (B).

Enclosure (2)

LOCATION: Adak, Alaska DATE: 16 July 1980 DIVERS: Johnston EO-2, Craig SM-3

PIER NAME/NO. Runway approach lights PILE YPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:50 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE				TYPE DAMAGE			GAUGE		DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	MAJ	SEV	MECH	BIO	FUNC	DEPTH	HGT	WIDTH	FENETR	
2	DB													Moderate biological growth moderate kelp at splash zone
2	D													" " " "
3	AB													" " " "
3	A													" " " "
3	B													" " " "
3	C													" " " "
3	D													" " " "
4	A													" " " "
4	B													" " " "
4	C													" " " "
4	D													" " " "
5	A													" " " "
5	B													" " " "
5	C													" " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

TIME OF DAY: 09:50 TIME: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

[illegible]

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
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 216. **Figure 208**
 217. **Figure 209**

LOCATION: Adak, Alaska DATE: 16 July 1980 DIVERS: Pierce UT-2, DeVillie EG-3

PIER NAME/NO. RUBY APPROACH PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 1512X TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	FILE DAMAGE			TYPE DAMAGE			GAUGE DIMENSIONS OF DAMAGE			COMMENTS		
		NO.	MIN.	MAX.	SEV.	MECH.	BIC	FUNC.	DEPTH	HGT		WIDTH	PENETR.
7	D												Bio. growth 4" at surface
8	A3												Bio. growth 4" at surface
9	B4												" " " " "
9	C3												" " " " "
9	DE												" " " " "
9	A												" " " " "
9	B												" " " " "
9	C												" " " " "
9	D												" " " " "
10	A												Damage at the mud line
10	B												Bio. growth 4" on pile
10	C												" " " " "
10	D												" " " " "

NO. NONE, MIN-MINIMUM, MOD-MODERATE, MAJ-MAJOR, SEV-SEVERE, NECH=MECHANICAL, BIC=BIOLOGICAL, FUNC=FUNCTIONAL

UNDERWAY
NAVAL COASTAL DEFENSE CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 16 July 1980 DIVERS: Wright BU-2, Yarnell EACN

PIER NAME/NO. Runway approach lights PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 13:32 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BLST PILE NO.	NO.	PILE DAMAGE			TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS	
		NO	MOD	NO	SEV	MECH		PIC	FUNC	HGT		WIDTH
5	5											Bio. growth 4" at surface tapering to 1" at bottom
6	6											" " " " "
7	7											" " " " "
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NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

COMMERCIAL NAME: STEEL PILE
NAVAL CONSTRUCTION DIVISION CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVERS: Hunter SM-1, Yarnell EACN

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE					TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	MAJ	SEV	MECH	BIO		FUNC	HGT	WIDTH	
11	3	XX											Light biological growth Moderate kelp at surf zone
11	H												
10	A												
10	2	XX											
10	C	XX											
10	D-1												Light biological growth only
10	D-2	XX											
10	E												Light biological growth only
10	F	XX											
10	G												Light biological growth only Light biological growth Moderate kelp at surf zone
10	H												
Bent 9 was not inspected because of its proximity to bent 10													
8	C												Light biological growth Moderate kelp at surf zone
8	D-1	XX											

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

PERMANENT CODE: 0000 TEAM 000
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVERS: Hunter SW-1, Yarnell EACN

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PENT NO.	PILE NO.	PILE DAMAGE		TYPE DAMAGE	GAUGE DIMENSIONS OF DAMAGE		COMMENTS
		NO.	NO.		DEPTH	WIDTH	
8	D-2		XX				Light biological growth only
8	E-1	XX					
8	E-2	XX					
8	F		XX				Light biological growth Moderate kelp at surf zone
7	C		XX				" " " "
7	D-1	XX					
7	D-2	XX					
7	E	XX					
7	F		XX				Light biological growth only
6	C		XX				" " " "
6	D-F	XX					
6	D-A		XX				Light biological growth only
6	E-P	XX					
6	E-A	XX					

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL
* F= Forward batter, A= After batter

LOCATION: Adak, Alaska

DATE: 22 July 1980

DIVERS: Hunter SW-1, Yarnell EACN

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE			DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	NOD	MAC	SEV	MECH	BIG	FUNC	DEPTH	HGT	WIDTH	PENETR	
6	F	XX												
5	C		XX											Light biological growth Light kelp at surf zone
5	D		XX											Light biological growth only
5	E-F	XX												
5	E-A	XX												
5	F		XX											Light biological growth Light kelp at surf zone
4	C		XX											" " " "
4	D-F	XX												
4	D-A		XX											Light biological growth only
4	E-F	XX												
4	E-A	XX												
4	F		XX											Light biological growth Light kelp at surf zone
3	C		XX											" " " "
3	D-F	XX												Light biological growth only

NO=NONE, MIN=MINIMUM, NOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

* F= Forward batter, A= After batter

LOCATION: Adak, Alaska

DATE: 22 July 1980

DIVERS: Hunter SW-1, Yarnell EACN

PIER NAME/NO. New supply pier: no. 5

PILE TYPE: XXX BEARING

☐ FEN ER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

STEEL SHEET

CONCRETE

STEEL "H" PILE

TIME OF DAY: 11:25 TIDE:

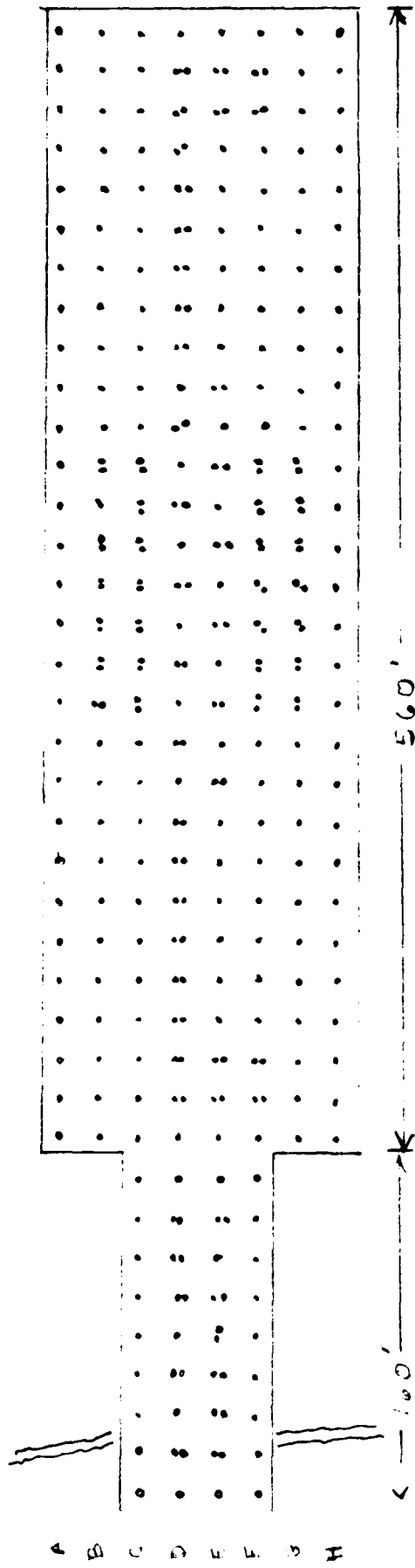
TIME OF DAY: 11:25 TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

[illegible]

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NO_ZONE=MIN=MININDEX,MOD=MODERATE,MAX=MAXTOR,SEV=SEVER,MSCH=MECHANICAL,ESCH=EDUCATIONAL
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38



PLAN - NOT TO SCALE

Each DOT = 1 pile, Double Dots = 2 Butter Piles

NAVAL CENTER FOR RESEARCH & DEVELOPMENT
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1930 DIVERS: Hunter SW-1, Yarnell EACN

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE	GAUGE DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	RODING	SEV	MECH	BIO	FUNC	
12	C	XXX							
12	D-1	XX							
12	D-2								Light biological growth only
12	E	XX							
12	F	XX							
12	G								Light biological growth only
12	H								Light biological growth Moderate kelp at surf zone
11	A								" " " "
11	B	XX							
11	C	XX							
11	D-1	XX							
11	D-2								Light biological growth only
11	E	XX							
11	F	XX							

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MA=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska

DATE: 22 July 1980

DIVERS: Hunter SW-1, Yarnell EACN

PIEZ NAME/NO. New supply pier; no. 5

FILE TYPE:

BEARING

FENDER

1315

FILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☒ CONCRETE ☐ STEEL "P" PILE

STEEL PIPE

STEEL SHEET

XXX CONCRETE

STEEL "H" PILE

TIME OF DAY: 11:25 TIDE:

WATER DEPTH - R

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PNT. NO.	PILE NO.	PILE DAMAGE				TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
		SEV	MOD	MIN	NO	MECH	EIC	FUNC		HGT	WIDTH	PENETR	
14	P	XX											
14	G		XX										Light biological growth only
14	H		XX										Light biological growth Moderate kelp at surf zone
13	A		XX										" " " "
13	B	XX											
13	C	XX											
13	D-1	XX											
13	D-2	XX											
13	E		XX										Light biological growth only
13	F	XX											
13	G	XX											
13	H		XX										Light biological growth Moderate kelp at surf zone
12	A		XX										" " " "
12	B		XX										Light biological growth only

GO=MORE,HN=HEAVEN,MOD=MODERATE,NVL=MAJOR,SEV=SEVER,NECH=MECHANICAL,BIO=BIOLOGICAL,PSYC=PSYCHOLOGICAL

UNDERWATER CONSTRUCTION BATTALION TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVERS: Hunter SM-1, Yarnell EACN

PIER NAME/NO. New supply pier no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 11:15 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PIL NO.	PILE NO.	NT	PILE DAMAGE				TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			NC	MIN	MOD	MAJ	SEV	MECH	BIO		FUNC	HGT	WIDTH	
15	B	XXX												
15	C	XXX												
15	D-1	XXX												
15	D-2	XXX												
15	E	XXX												
15	F	XXX												
15	G		XX											Light biological growth only
15	H		XX											Light biological growth Moderate kelp at surf zone
14	A		XX											" " " "
14	B		YY											Light biological growth only
14	C	XXX												
14	D-1		XX											Light biological growth only
14	D-2	XXX												
14	E	XXX												

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

NAVY ENGINEERING CENTER
STRUCTURAL BATTALION CENTER
FORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVERS: Johnston EO-2, Wright BU-2

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 10:20 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE DAMAGE			DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	MAJ	SEV	MECH	BIO	FUNC	DEPTH	HGT	WIDTH	PENETR	
17	E													
17	F													
17	G													Light biological growth only
17	H													Light biological growth Moderate kelp at surf zone
15	A													" " " "
16	B													
16	C													
16	D-1													
16	D-2													
16	E													Light biological growth only
16	F													
16	G													
16	H													Light biological growth Moderate kelp at surf zone
15	A													" " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska

DATE: 22 July 1980

DIVERS: Johnston EO-2, Wright BU-2

PIER NAME/NO. New supply pier; no. 5

PILE TYPE: ☒ BEARING

☐ FENDER

☐ SHEET

PILE MATERIAL: ☐ TIMBER

☐ STEEL PIPE

☐ STEEL SHEET

☒ CONCRETE

☐ STEEL "H" PILE

TIME OF DAY: 10:15

TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE		DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MAJ	SEV	MECH	BIO	FUNC	DEPTH	HGT	WIDTH	PENETR	
12	A												Light biological growth Moderate kelp at surf zone
13	B	XXX											
13	C	XXX											
13	D-1	XXX											
13	D-2	XXX											
13	E	XX											Light biological growth only
13	F	XXX											
13	G	XXX											
13	H												Light biological growth Moderate kelp at surf zone
17	A	XL											" " " "
17	B	XXX											
17	C	XXX											
17	D-1	XX											Light biological growth only
17	D-2	XXX											

NC=NONE, MTN=MINIMUM, MCT=MODERATE, MJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO= BIOLOGICAL, FUNC=FUNCTIONAL

NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVERS: Johnston EO-2, Wright BU-2

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: XX BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 10:15 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BLNT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE DIMENSIONS OF DAMAGE			COMMENTS
		NO	NO	NO	NO	NO	NO	HGT	WIDTH	PENETR	
20	D-2	XXX									
20	E	XX									
20	F	XX									
20	G	XX									
20	H		XX								Light biological growth Medium kelp at surf zone
19	A		XX								" " " "
19	B		XX								Light biological growth only
19	C	XX									
19	D		XX								Light biological growth only
19	E-1		XX								" " " "
19	E-2	XX									
19	F	XX									
19	G	XX									
19	H		X								Light biological growth Medium kelp at surf zone

NO=NONE, NI=NOT IDENTIFIED, ADD=NO DAMAGE, X=NO, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVER: Johnston EO-2, Wright BU-2

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:50 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS	
		NO	MIN	MOD	MAJ	SEV	MCH		EIC	FUNC	HGT		WIDTH
21	B-F												Light biological growth only
21	C-F	XX											
21	C-A	XXX											
21	D												Light biological growth only
21	E-1												" " " "
21	E-2												" " " "
21	F-F	XX											
21	F-A	XX											
21	G-F	XX											
21	H												Light biological growth Moderate kelp at surf zone
20	A												" " " "
20	B	XX											
20	C												Light biological growth only
20	D-1	XX											

NO=NONE, MIN=MINIMUM, MCH=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MCHANICAL, EIC=EROSION, FUNC=FUNCTIONAL
* F= Forward batter A= After batter

Adak, Alaska

DATE: 22 July 1969

DIVERS: Johnston 50-2, Wright 31-2

PIER NAME/NO. New supply pier; no. 5	PILE TYPE:	BEARING	FENDER	SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:40 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

[illegible]

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NO=NONE,MIN=MINTEXTLN,NO=NONE,SEV=SEVERE,MATCH=XMATCHCOL,EIO=REQUESTCOL,FUNC=FUNCTIONAL
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*F= Forward batter A= After batter

UNDERWATER CONSTRUCTION TEAM T-1
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 22 July 1980 DIVERS: Johnston EO-2, Wright BU-2

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:30 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BLNT NO.	FILE NO.	PILE DAMAGE		TYPE MECH	BIO FUNC	GAUGE DEPTH	DIMENSIONS OF DAMAGE		COMMENTS
		NO	MIN	MOD	MAJ	SEV	HGT	WIDTH	PENETR
23	A								Light biological growth Moderate kelp at surf zone
23	* B-1	XX							
23	* B-2	XX							Light biological growth only
23	* C-1	XX							
23	* C-2	XX							
23	D	XX							Light biological growth only
23	E-1	XX							" " " "
23	* E-2	XX							
23	* F-1	XX							
23	* F-2	XX							
23	* G-1	XX							
23	* G-2	XX							
23	H	XX							Light biological growth Moderate kelp at surf zone
22	A	XX							" " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL
* F= Forward batter A= After batter

UNDERWATER CO'S CHINA TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 21 July 1980 DIVERS: DeHille EO-3, Duran EO-3

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 13:45 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	NO.	PILE DAMAGE					TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	MAJ	SEV	MECH	BIO		FUNC	HGT	WIDTH	
25	H													Light biological growth Moderate kelp at surf zone
24	A	*												" " " "
24	B-F	XXX												
24	B-A	XXX												
24	C-F	XXX												
24	C-A	XXX												
24	D-1													Light biological growth
24	D-2	XXX												
24	E													Light biological growth
24	F-F	XXX												
24	F-A	XXX												
24	G-F	XXX												
24	G-A	XXX												
24	F													Light biological growth Moderate kelp at surf zone

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

* F= Forward batter A= After Batter

UNITED STATES NAVY
NAVAL CONSTRUCTION REGISTRATION CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 21 July 1981 DIVERS: DeVille EO-3, Duran EO-3

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 13:45 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS		
		NO	MIN	MOD	MAJ	SEV		MECH	BIG	FUNC		HGT	WIDTH
26	*	1-A	XXX										
26	H		XX										Light biological growth Moderate kelp at surf zone
25	A		XX										" " " "
25	*	B-A	XXX										
25	*	B-F	XXX										
25	*	C-A		XX									Light biological growth only
25	*	C-F	XXX										
25	D		XX										
25	E-1		XX										Light biological growth
25	E-2		XXX										
25	*	F-A	XXX										
25	*	F-F		XX									Light biological growth only
25	*	G-A	XXX										
25	*	G-F	XXX										

AC=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL
* F= Forward batter A= After batter

ONCE-WATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 21 July 1980 DIVERS: DeMille EC-3, Duran EO-3

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 13:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PNT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE			DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	NAJ	SEV	MECH	EIC	FUNC	DEPTH	HGT	WIDTH	PENETR	
27	* G-A	XXX												
27	* G-F													Light biological growth only
27	H													Light biological growth
26	A													Moderate kelp at surf zone
26	* B-F	XXX												" " " "
26	* B-A	XXX												" " " "
26	* C-F	XXX												" " " "
26	* C-A													Light biological growth only
26	D-1	XXX												
26	D-2	XXX												
26	E													Light biological growth only
26	* F-F	XXX												
26	* F-A													Light biological growth only
26	* G-F	XX												

NO=NONE, MIN=MINIMUM, MOD=MODERATE, NAJ=NAJ, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL
* F=Forward Batter, A= After Batter

DATE: 21 July 1980 DIVERS: DeKille EO-3, Duran EO-3

PIER NAME/NC. New supply pier; no. 5

PILE TYPE:	XXX BEARING	<input type="checkbox"/> FENDER	<input type="checkbox"/> SHEET
------------	-------------	---------------------------------	--------------------------------

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ ~~CONCRETE~~ STEEL "H" PILE

TIME OF DAY: 12:30 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

[illegible]

NONE=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL
 * A = After batter F = Forward batter

NAVAL CONSTRUCTION PATRIOTISM CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska

DATE: 21 July 1980

DIVERS: Armstrong CE-1, Yoris CM-3

PIER NAME/NO. New supply pier ; no. 5

PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 12:20 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE			DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	MAJ	SEV	MECH	EIO	FUNC	DEPTH	HGT	WIDTH	PENETR	
29	A													Light biological growth Moderate kelp at surf zone
29	B	XX												
29	C	XXX												
29	D-1	XXX												
29	D-2	XX												
29	E	XX												
29	F	XX												Light biological growth only Gouge, no rebar exposed rust bleed is present
29	G		XXX						XXX	10'	8"	8"	2"	Light biological growth Moderate kelp at surf zone
29	H		XX											" " " "
29	A		XX											" " " "
29	B	XXX												
29	C	XXX												
29	D-1	XX												
29	D-2	XX												

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MECHANICAL, EIO=BIOLOGICAL, FUNC=FUNCTIONAL

UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 21 July 1980 DIVERS: Armstrong, CE-1, Voria, CM-3

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: XXX BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET XXX CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 12:20 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE					TYPE DAMAGE		GAUGE		DIMENSIONS OF DAMAGE			COMMENTS
		NI	NO	MIN	MOL	MAJ	SEV	MICH	BIO	TUNC	DEPTH	HGT	WIDTH	
31	D-2	XXX												
31	E	XXX												
31	F	XXX												
31	G	XXX												
31	H		XX											Light biological growth Moderate kelp at surf zone
30	A		XX											" " " "
30	B		XX											Light biological growth only
30	C	XXX												
20	D-1	XXX												
30	D-2	XXX												
30	E	XXX												
30	F		XXX						XXX	10'	3"	6"	2"	Large, no rebar exposed rust bleed is present
30	G		XX											Light biological growth Light kelp at surf zone
30	H		XX											Light biological growth Moderate kelp at surf zone

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, TUNC=FUNCTIONAL

LOCATION: Adak, Alaska

DATE: 21 July 1980

DIVERS: Gilliam HM-2, Yarnell EACH

PIER NAME/NO. New supply pier; no. 5

PILE TYPE: ☒ BEARING

☐ FENDER

☐ SHEET

PILE MATERIAL: ☐ TIMBER

☐ STEEL PIPE

☐ STEEL SHEET

☒ CONCRETE

☐ STEEL "H" PILE

TIME OF DAY: 10:30

TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PNT NO.	PILE NO.	NT	PILE DAMAGE				TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	MAJ	SEV	MECH	BIO		FUNC	HGT	WIDTH	
33	H													Light biological growth Moderate kelp at surf zone
32	A									35'	3"			Rough aggregate exposed not a smooth surface
32	B									35'	3"			" " " "
32	C	XXX												
32	D-1	XXX												
32	D-2	XXX												
32	E													Light biological growth only
32	F	XXX												
32	G													Light biological growth only
32	H													Light biological growth Moderate kelp at surf zone
31	A													" " " "
31	B													Light biological growth only
31	C	XXX												
31	D-1	XXX												

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SPV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 33043

LOCATION: Adak, Alaska DATE: 21 July 1980 DIVERS: Gilliam HM-2, Yarnell EACN

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 10:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE				TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	MAJ	SEV	MECH	BIG		HGT	WIDTH	PENETR	
34	D-1		XX										Light biological growth only
34	D-2		XX										" " " "
34	E		XX										" " " "
34	F		XX										" " " "
34	G		XX										" " " "
34	H		XX										Light biological growth Moderate kelp at surf zone
33	A		XX										" " " "
33	B		XX										Light biological growth only
33	C		XX										" " " "
33	D-1		XX										" " " "
33	D-2		XX										" " " "
33	E		XX										" " " "
33	F		XX										" " " "
33	G		XX										" " " "

NO=NONE MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska

DATE: 21 July 1980

DIVERS: Gilliam HM-2, Yarnell EACN

PIER NAME/NO. New supply pier; no. 5

PILE TYPE: ☒ BEARING

☐ FENDER

☐ SHEET

PILE MATERIAL: ☐ TINDER

☐ STEEL PIPE

☐ STEEL SHEET

☒ CONCRETE

☐ STEEL "H" PILE

TIME OF DAY: 09:20

TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	FILE NO.	NO	PILE DAMAGE			TYPE DAMAGE			GAUGE		DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	NO	NO	NO	SEV	MECH	BIO	FUNC	DEPTH	HGT	
36	B													Light biological growth
36	A													Light biological growth Moderate kelp at surf zone
35	A													" " " "
35	B													Light biological growth
35	C													" " " "
35	D-1													" " " "
35	D-2													" " " "
35	E													" " " "
35	F													" " " "
35	G													" " " "
35	H													Light biological growth only
34	A													Light biological growth Moderate kelp at surf zone
34	B													Light biological growth only
34	C													" " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

UNITED STATES NAVY
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 21 July 1980 DIVERS: Hunter SM-1, Johnston EQ-2

PIER NAME/NO. New supply pier; no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PENT NO.	PILE NO.	NI	PILE DAMAGE			TYPE DAMAGE			GAUGE		DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	MAJ	SEV	MECH	PIC	FUNC	DEPTH	HGT	WIDTH	
37	E-2													Light biological growth
37	F-1		XX											" " " " "
37	F-2		XX											" " " " "
37	G		XX											Light biological growth Moderate kelp growth at surface
37	H		XX											" " " " "
36	H		XX											" " " " "
36	G		XX											" " " " "
36	F-2		XX											Light biological growth only
36	F-1		XX											" " " " "
36	E-2		XX											" " " " "
36	E-1		XX											" " " " "
36	D-2		XX											" " " " "
36	D-1		XX											" " " " "
36	C		XX											" " " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, PIC=PILOT, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska

DATE: 18 July 1980

DIVERS: Armstrong CE-1, Voris CM-3

PIER NAME/NO. Fuel Pier

PILE TYPE: ☒ BEARING

☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER

☐ STEEL PIPE

☐ STEEL SHEET

☒ CONCRETE

☐ STEEL "H" PILE

TIME OF DAY: 12:30

TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE	DAMAGE	GAUGE	DIMENSIONS OF DAMAGE			COMMENTS
		NO	MAN	HOLD	NO	NO	NO	NO	NO	NO	
R	1	XX									Light biological growth water depth 5'
R	2	XX									Light biological growth water depth 9'
S	1	XX									Light biological growth water depth 5'
S	2	XX									Light biological growth water depth 7'
T	1	XX									Light biological growth water depth 3'
T	2	XX									Light biological growth water depth 4'
U	1	XX									Light biological growth water depth 3'
U	2	XX									" " " " "
W	1	XX						6"	3"	1.5"	Damage 3.5' above waterline
W	2	XX									Light biological growth water depth 2'
X	1	XX						4"	4"	1.5"	Damage 1' above waterline
X	2	XX						2"	2"	1"	" " " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MA=MAJOR, SEV=SEVERE, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska

DATE: 18 July 1980

DIVERS: Armstrong CE-1, Voris CK-3

PIER NAME/NO. Fuel Pier

PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 12:30 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE				TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MAX	SEV	MECH	BIO		FUNC	HGT	WIDTH	
44	J			XX								Moderate biological growth water depth 25' moderate kelp
5	1			XX								Moderate biological growth water depth 31' moderate kelp
5	2			XX								Moderate biological growth water depth 30' moderate kelp
6	1			XX								Moderate biological growth water depth 27' moderate kelp
6	2			XX								Moderate biological growth water depth 28' moderate kelp
6	1			XX								Moderate biological growth water depth 23' moderate kelp
6	2			XX								Moderate biological growth water depth 20' moderate kelp
7	1			XX								Moderate biological growth water depth 17' moderate kelp
7	2			XX								Moderate biological growth water depth 15' moderate kelp
8	1			XX								Moderate biological growth water depth 10' moderate kelp
8	1			XX								Moderate biological growth water depth 9' moderate kelp
8	2			XX								Moderate biological growth water depth 14' moderate kelp
8	1			XX								Light biological growth water depth 7'
8	2			XX								Light biological growth water depth 12'

NO=NOISE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska

DATE: 15 July 1980

DIVERS: Johnston EC-2, Duran EO-3

PIER NAME/NO. Fuel Pier

PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE

☒ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 14:45

TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PIER NO.	PILE NO.	PILE DAMAGE		TYPE DAMAGE		GAUGE		DIMENSIONS OF DAMAGE		COMMENTS
		NO	NO	NO	NO	NO	NO	HGT	WIDTH	
34	C	XX								Moderate biological growth water depth 34' moderate kelp
35	D	XX								Moderate biological growth water depth 35' moderate kelp
36	D	XX								" " " " "
37	D	XX								" " " " "
38	D	XX								" " " " "
39	D	XX								Moderate biological growth water depth 32' moderate kelp
40	F	XX								Moderate biological growth water depth 30' moderate kelp
41	D	XX								" " " " "
42	D	XX								Moderate biological growth water depth 28' moderate kelp
43	A	XX								" " " " "
43	B	XX								Moderate biological growth water depth 25' moderate kelp
43	J	XX								" " " " "
44	A	XX								Moderate biological growth water depth 20' moderate kelp
44	D	XX								" " " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVERE, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska DATE: 15 July 1980 DIVERS: Johnston EO-2, Duran EO-3

PIER NAME/NO. Fuel Pier PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 14:45 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

PIL NO.	PIL NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE			DIMENSIONS OF DAMAGE			COMMENTS
		NO	MIN	MOD	MAJ	SEV	MECH	BIO	FUNC	DEPTH	RG	WID	LEN	
28	A													Moderate biological growth water depth 38' moderate kelp
28	B													Moderate biological growth water depth 35' moderate kelp
28	C													Moderate biological growth water depth 34' moderate kelp
29		XX												
30	A													Moderate biological growth water depth 39' moderate kelp
30	B													Moderate biological growth water depth 34' moderate kelp
30	C													Moderate biological growth water depth 34' moderate kelp
31		XX												
32	A													Moderate biological growth water depth 38' moderate kelp
32	B													" " " "
32	C													Moderate biological growth water depth 33' moderate kelp
33		XX												
34	A													Moderate biological growth water depth 41' moderate kelp
34	B													Moderate biological growth water depth 40' moderate kelp

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 15 July 1960 DIVERS: Johnston EO-2, Duran EO-3

PIER NAME/NO. Fuel Pier PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 14:45 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BLT NO.	PILE NO.	PILE DAMAGE	TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			SEV	MECH	BIO		FUNC	HGT	WIDTH	
20	C	XX								Excessive biological growth water depth 30' excessive kelp
21		XX								
22	A	XX								Excessive biological growth water depth 38' excessive kelp
22	B	XX								" " " " "
22	C	XX								" " " " " water depth 35'
23		XX								
24	A	XX								Excessive biological growth water depth 40' excessive kelp
24	B	XX								Excessive biological growth water depth 38' excessive kelp
24	C	XX								" " " " "
25		XX								
26	A	XX								Excessive biological growth water depth 38' excessive kelp
26	B	XX								Excessive biological growth water depth 36' excessive kelp
26	C	XX								Excessive biological growth water depth 38' excessive kelp
27		XX								

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 15 July 1980 DIVERS: Sparks JH-1, Kulu FH-1

PIER NAME/NO. Pile Type: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 10:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT	PILE NO.	NT	PILE DAMAGE				TYPE DAMAGE			CAUGE		DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	NAJ	SEV	MECH	BIO	FUNC	DEPTH	HGT	WIDTH	FENETR	
17	1													Excessive biological growth	
17	2													Excessive biological growth	
17	3													Excessive biological growth	
17	4													Excessive biological growth	
17	5													Excessive biological growth	
17	6													Excessive biological growth	
17	7													Excessive biological growth	
17	8													Excessive biological growth	
17	9													Excessive biological growth	
17	10													Excessive biological growth	
17	11													Excessive biological growth	
17	12													Excessive biological growth	
17	13													Excessive biological growth	
17	14													Excessive biological growth	
17	15													Excessive biological growth	
17	16													Excessive biological growth	
17	17													Excessive biological growth	
17	18													Excessive biological growth	
17	19													Excessive biological growth	
17	20													Excessive biological growth	
17	21													Excessive biological growth	
17	22													Excessive biological growth	
17	23													Excessive biological growth	
17	24													Excessive biological growth	
17	25													Excessive biological growth	
17	26													Excessive biological growth	
17	27													Excessive biological growth	
17	28													Excessive biological growth	
17	29													Excessive biological growth	
17	30													Excessive biological growth	

NO=NONE, MIN=MINIMUM, MOD=MODERATE, NAJ=NAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

ADAK ISLAND CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 15 July 1980 DIVERS: Sparks SM-1, Kulu PH-1

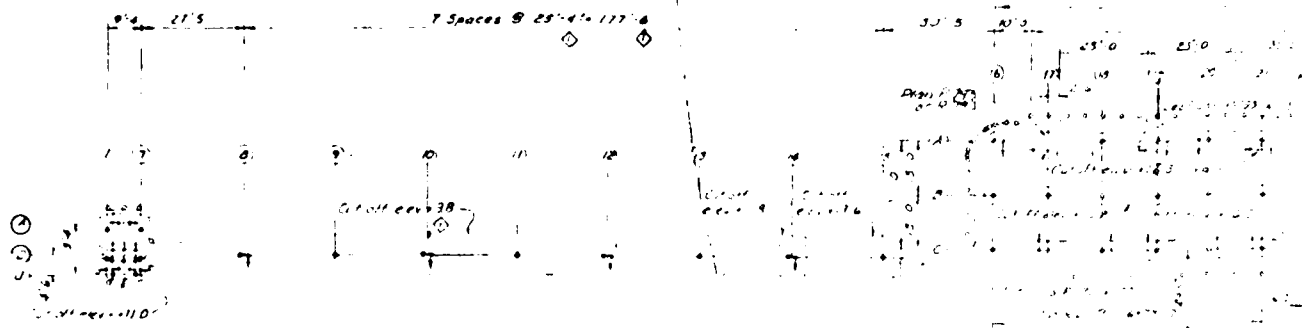
PIER NAME/NO. Fuel Pier PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 12:30 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE DIMENSIONS OF DAMAGE			COMMENTS
		BT	NO	MIN	MOD	MAJ	SEV	MECH	BIO	FUNC	
1	A		XX								Slight biological growth water depth 25'
1	D		XX								" " " "
1	J		XX								" " " "
7	A		XX								" " " "
7	D		XX								Moderate biological growth water depth 25'
7	J		XX								" " " "
8	D		XX								" " " "
9	D		XX								" " " "
10	D		XX								" water depth 30'
11	D		XX								" " " "
12	D		XX								" " " "
13	D		XX								" " " "
14	D		XX								" " " "
15	D		XX								" " " "

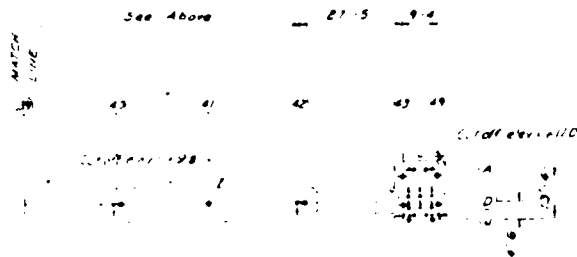
NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO= BIOLOGICAL, FUNC=FUNCTIONAL



PILE PLAN
FUEL PIER
ADAK, ALASKA

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FROM NAVFAC DWG 71193 (1957)

3

INSPECTION SUMMARY FOR FUEL PIER ADAK, AK

1. UCT TWO Det Adak inspected the fuel pier, north, south catwalks and the approach pier at the Naval Station during the period 15 - 18 July 1980. The inspection data is referenced to Bureau of Yards and Docks drawing #711793.
2. The fuel pier is constructed of 16 inch diameter octagon shaped reinforced concrete piles. There is a total of 39 bents; nineteen bents with three bearing piles per bent on the main pier and 20 bents which support the north and south catwalks. Additionally, there are 17 bents of two piles per bent on the approach pier. A total of 89 piles were inspected from the mud line to the high water mark. In general, the pier is in excellent condition. No stress cracks were noted nor were any spalling and/or rust bleeding evident. Bent W and X on the approach pier do have minor damage due to spalling and flaking of concrete above the high water mark. All piles had biological growth in the splash zone consisting of kelp, barnacles and sea anemones ranging from one inch to eight inches thick.
3. Inspection sheets of all piles are attached as tab (A) of this enclosure. Photos of this inspection are attached as tab (B).

UNDERWATER SURVEY SECTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska

DATE: 1st July 1980

DIVERS: Gilliam HE-2, Pierce UT-2

PIER NAME/NO. Old supply pier T103

PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 10:10

TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	NO.	PILE DAMAGE				TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	MAJ	SEV	MECH		BIO	FUNC	HGT	
21	12												Moderate biological growth Moderate kelp at splash zone
21	13												" " " "
16	1												" " " "
16	2												Core sample taken at 10'
16	12												Moderate biological growth Moderate kelp at splash zone
16	13												" " " "
11	1												" " " "
11	2												" " " "
11	12												" " " "
11	13												Core sample taken at 10'
6	1												Moderate biological growth Moderate kelp at splash zone
6	2												" " " "
6	12												" " " "
6	13												Core sample taken at 10'

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

PORT HUEENEME CALIFORNIA 93043
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUEENEME CALIFORNIA 93043

LOCATION: Adak, Alaska

DATE: 17 July 1980

DIVERS: Macha CE-1, Duncan PH-1

PIER NAME/NO. Old supply pier T1403

PILE TYPE: ☒ BEARING

☐ FENDER

☐ SHEET

PILE MATERIAL: ☒ TIMBER

☐ STEEL PIPE

☐ STEEL SHEET

☐ CONCRETE

☐ STEEL "H" PILE

TIME OF DAY: 14:40

TIDE:

WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE			GAUGE			DIMENSIONS OF DAMAGE			COMMENTS
		NO	ML	MCD	MAJ	SEV	MECH	BIO	FUNC	DEPTH	HGT	WIDTH	PENETR	
36	1		XX											Moderate biological growth Moderate kelp at splash zone
36	2		XX											" " " "
36	12		XX											" " " "
36	13		XX											" " " "
31	1		XX											" " " "
31	2		XX											" " " "
31	12		XX											" " " "
31	13		XX											" " " "
26	1		XX											" " " "
26	2		XX											" " " "
26	12		XX											" " " "
26	13		XX											" " " "
21	1		XX											Core sample taken at 10'
21	2		XX											Moderate biological growth Moderate kelp at splash zone

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 17 July 1980 DIVERS: Macha CE-1, Duncan PH-1

PIER NAME/NO. Old supply pier T1403 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SH ET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 14:40 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	NI	PILE DAMAGE				TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	MAJ	SEV	MECH		BIO	FUNC	HGT	
57	12		XX										Moderate biological growth Moderate kelp at splash zone
57	13		XX										" " " "
52	1		XX										" " " "
52	2		XX										" " " "
52	12		XX										" " " "
52	13		XXX					XXX	10'	3'	3"	4"	Longitudinal crack Moderate biological growth Moderate kelp at splash zone
47	1		XX										" " " "
47	2		XX										" " " "
47	12		XX										" " " "
47	13		XX										" " " "
42	1		XX										" " " "
42	2		XX										" " " "
42	12		XX										" " " "
42	13		XX										" " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO= BIOLOGICAL, FUNC=FUNCTIONAL

LOCATION: Adak, Alaska DATE: 17 July 1980 DIVERS: Gilliam HM-2, Craig SW-3

PIER NAME/NO. Old supply pier T1403 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:55 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	NT	PILE DAMAGE					TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS
			NO	MIN	MOD	MAJ	SEV	MECH	BIO	FUNC		HGT	WIDTH	PENETR	
60	11			XX					XXX		33'	3"	.5"	1"	Crack at mud line
60	12		XX												Moderate biological growth
59	1		XX												Moderate kelp at splash zone
59	2		XX												" " " " " "
59	3		XX												" " " " " "
59	11		XX												" " " " " "
59	12		XX												" " " " " "
59	13		XX												" " " " " "
58	1		XX												" " " " " "
58	2		XX												" " " " " "
58	12		XX												" " " " " "
58	13		XX												" " " " " "
57	1		XX												" " " " " "
57	2		XX												" " " " " "

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 17 July 1980 DIVERS: Gillingham HM-2, Craig SM-3

PIER NAME/NO. Old supply pier T1403 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☒ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☐ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 09:55 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

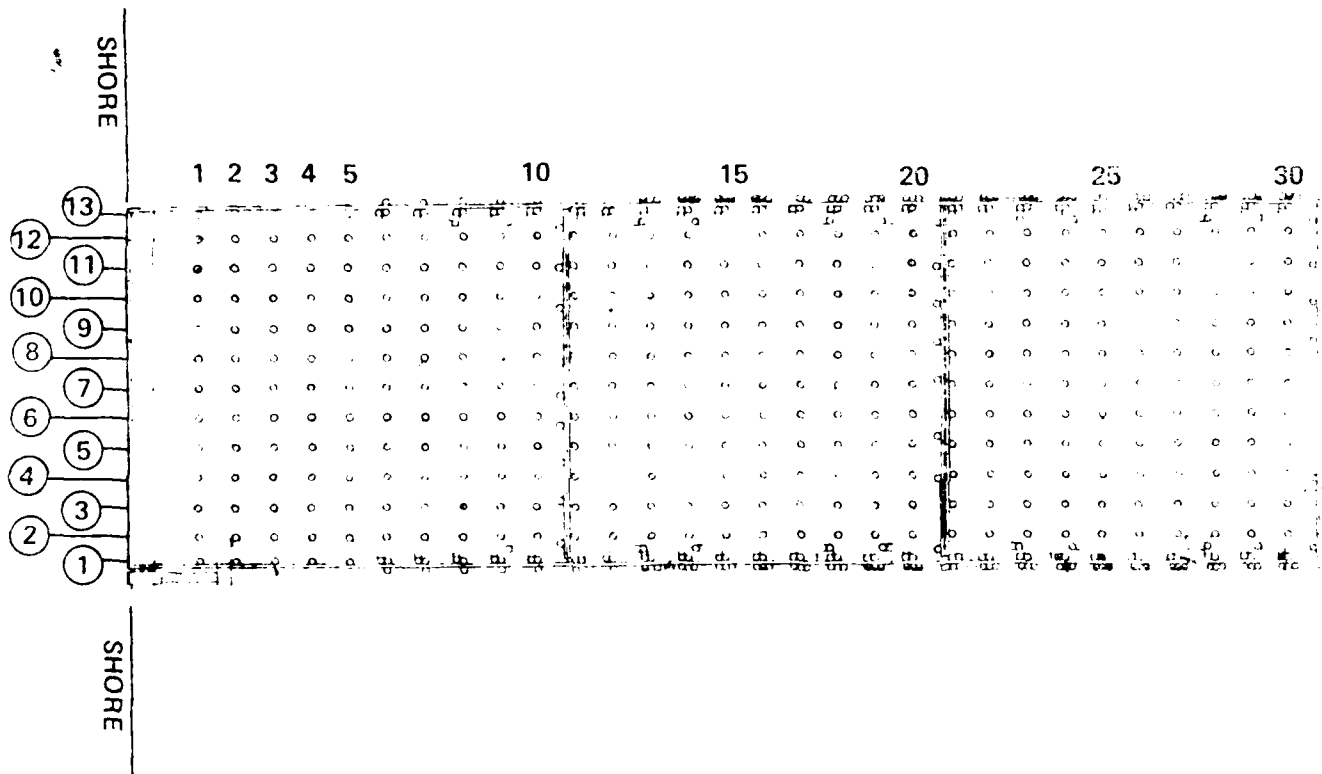
BENT NO.	PILE NO.	NT	PILE DAMAGE			TYPE DAMAGE			GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS			
			NO	MIN	MOD	MAJ	SEV	MECH		BIO	FUNC	HGT		WIDTH	PENETER	
61	2												Moderate biological growth Moderate kelp at splash zone			
61	3		XX													
61	4												"	"	"	"
61	5												"	"	"	"
61	6												"	"	"	"
61	7												"	"	"	"
61	8												"	"	"	"
61	9												"	"	"	"
61	10												"	"	"	"
61	11												"	"	"	"
61	12												"	"	"	"
60	1												"	"	"	"
60	2												"	"	"	"
60	3												"	"	"	"

NC=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

STATION, A

SUPPLY PIER

PILE CL



PIER CONTAINS 61 BENTS

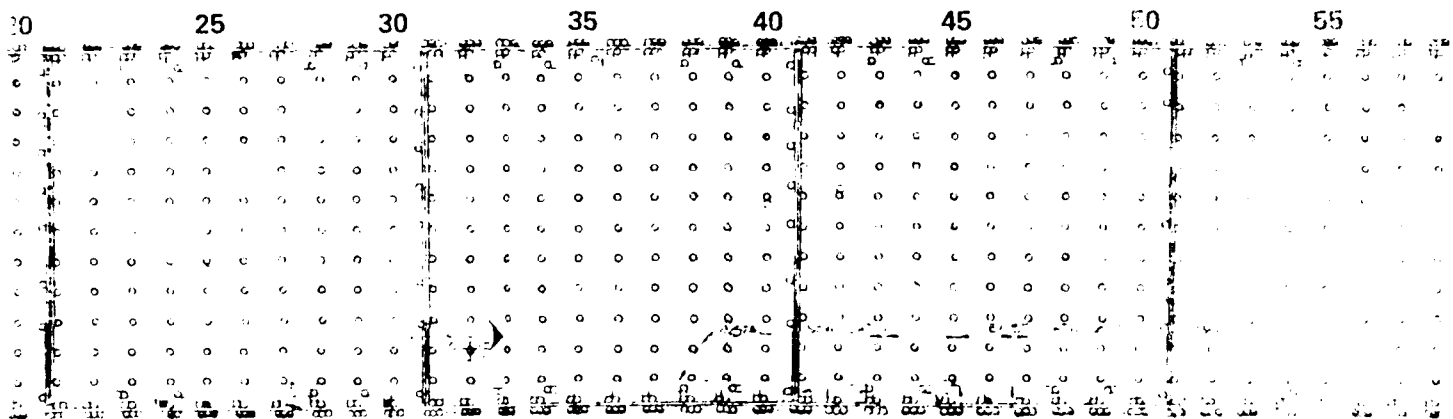
PILES ARE 16 INCH TIMBER

PIER CONTAINS FIVE FI

PILE DIMENSION

①

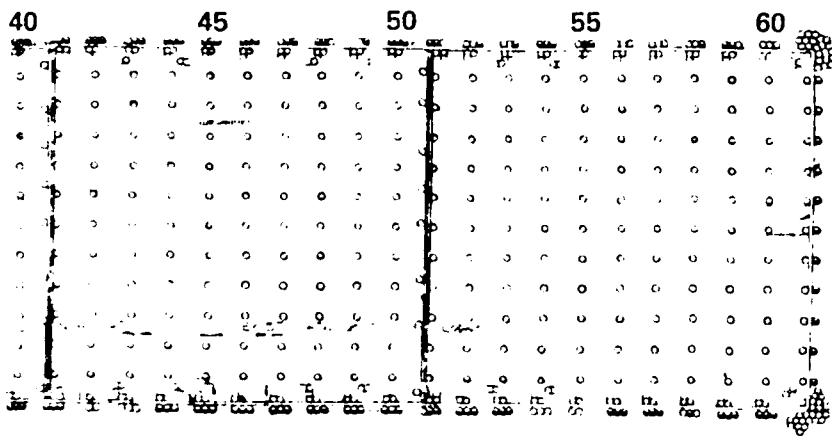
PILE PLAN



PILE DIMENSIONS 96' X 617'

TAKEN FROM NAVFAC DWG 60

②



③

TAKEN FROM NAVFAC DWG 6077S51

INSPECTION SUMMARY FOR SUPPLY PIER T-1403

1. Supply Pier T-1403 was inspected by UCT TWO Det Adak, Alaska on 17-18 July 1980. This inspection data is referenced to NAVFAC drawing 6077551. The bearing piles supporting pier T-1403 are 16 inch diameter timber. There is a total of 780 piles with five firebreak walls. All firebreak walls appear in excellent condition. Incremental bore samples were taken on bents 6, 11, 16, 21, to determine the extent of creosote protection remaining within the pilings. Results indicated that between two and two and one half inches of creosote protection exists within the pilings sampled. There is from one to three inches of marine growth (consisting of kelp, barnacles, sea anemone) on all piles throughout the pier.
3. Inspection sheets are attached as tab (A) of this enclosure. Photos of the inspection are attached as tab (B).

Enclosure (3)

UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

LOCATION: Adak, Alaska DATE: 21 July 1980 DIVERS: Hunter SW-1, Johnston EO-2

PIER NAME/NO. New supply pier: no. 5 PILE TYPE: ☒ BEARING ☐ FENDER ☐ SHEET

PILE MATERIAL: ☐ TIMBER ☐ STEEL PIPE ☐ STEEL SHEET ☒ CONCRETE ☐ STEEL "H" PILE

TIME OF DAY: 06:40 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:

BENT NO.	PILE NO.	PILE DAMAGE			TYPE DAMAGE		GAUGE DEPTH	DIMENSIONS OF DAMAGE			COMMENTS	
		NO	MIN	MOD	MAJ	SEV		MECH	BIO	FUNC		HGT
38	H											Light biological growth Moderate kelp at splash zone
38	G											
38	F											
38	E											
38	D											
38	C											
38	B											
38	A											
37	A											
37	B											
37	C											Light biological growth only
37	D-1											
37	D-2											
37	E-1											

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

END
FILMED

5-86

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